

POPTSOV, Nikolay Petrovich; POTEMLIN, V.V., dotsent, otd.red.; GONCHAROV,
V.P., red.; KAZAKOV, A.I., tekhn.red.

[Principles of modern physics; methods handbook for fourth-course
correspondence students of philosophy faculties at state
universities] Osnovy sovremennoi fiziki; uchebno-metodicheskoe
posobie dlia studentov-zaochnikov IV kursa filosofskikh fakul'te-
tov gosudarstvennykh universitetov. Izd.2., ispr. i dop. Lenin-
grad, Izd-vo Leningr.univ., 1960. 119 p.

(MIRA 14:2)

(Physics--Philosophy)

BENDRIKOV, G.A.; KRASLUSHKIN, P.Ye.; REYKHRUDEL', E.M.; POTEKIN, V.V.;
MUSTEL', Ye.R.; RZHEVKIN, K.S.; IVANOV, I.V.; KHARlamov, A.A.;
TIKHONOV, Yu.V.; STRELKOVA, L.P.; KAPTSOV, L.N.; OGDANOVICH, A.Ye.;
KHOCHLOV, R.V.; VORONIN, E.S.; BERESTOVSKIY, G.N.; KRASNOPREVTSEV,
Yu.V.; MINAKOVA, I.I.; YASTREBSEVA, T.N.; SEMENOV, A.A.; VINO-
GRADOVA, M.B.; KARPEYEV, G.A.; DRACHEV, L.A.; TROFIMOVA, N.B.;
SIZOV, V.P.; RZHEVKIN, S.N.; VELIZHANINA, K.A.; NESTEROV, V.S.;
SPIVAK, G.V., red.; NOSYREVA, I.A., red.; GEORGIYEVA, G.I., tekhn.
red.

[Special practical manual in physics] Spetsial'nyi fizicheskii
praktikum. Moskva, Izd-vo Mosk.univ. Vol.1. [Radiophysics and
electronics] Radiofizika i elektronika. 1960. 600 p.

(MIRA 13:7)

1. Professorsko-prepodavatel'skiy sostav otdeleniya radiofiziki
fizicheskogo fakul'teta Moskovskogo gosudarstvennogo universiteta
(for all, except Spivak, Nosyрева, Georgiyeva).
(Radioactivity) (Electronics)

BENDRIKOV, G.A.; KRASNUSHKIN, P.Ye.; REYKHRUDEL', E.M.; POTEMLIN, V.V.;
MUSTEL', Ye.R.; RZHEVKIN, K.S.; IVANOV, I.V.; KHARLAMOV, A.A.;
TIKHONOV, Yu.V.; STRELKOVA, L.P.; KAPTSEV, L.N.; ORDAKOVICH,
A.Ye.; KHOKHLOV, R.V.; VORONIN, E.S.; BERESTOVSKIY, G.N.; KRASNO-
PEVTSEV, Yu.V.; MINAKOVA, I.I.; YASTREBTSEVA, T.N.; SEMENOV, A.A.;
VINOGRADOVA, M.B.; KARPEYEV, G.A.; DRACHEV, L.A.; TROFIMOVA, N.B.;
SIZOV, V.P.; RZHEVKIN, S.N.; VELIZHANINA, K.A.; NESTEROV, V.S.;
SPIVAK, G.V., red.; NOSYREVA, I.A., red.; GEORGIYEVA, G.I., tekhn.
red.

[Special physics practicum] Spetsial'nyi fizicheskii praktikum.
Moskva, Izd-vo Mosk.univ. Vol.1. [Radio physics and electronics]
Radiofizika i elektronika. Sost. pod red. G.V.Spivaka. 1960.

600 p.

(MIRA 13:6)

1. Professorsko-prepodavatel'skiy kollektiv fizicheskogo fakul'teta
Moskovskogo universiteta im. M.V.Lomonosova (for all except Spivak,
Nosyreva, Georgiyeva).

(Radio)

(Electronics)

POTEMKIN, Yury Vasil'yevich; LIUTSKAYA, N.S., otv.red.; DIZHUR, I.M.,
red.izd-va; NEGRIMOVSKAYA, R.A., tekhn.red.

[Economic policy of France in North African countries from 1945
through 1955] Ekonomicheskaya politika Frantsii v stranakh
Magriby, 1945-1955 gg. Moskva, Izd-vo vostochnoi lit-ry, 1960.
(MIRA 13:6)
122 p.
(Africa, North--French colonies--Economic conditions)

S/262/62/000,015/005/011
I007/I207

AUTHORS: Potemkina, A. M., Shvartsman, P. I. and Muslin, E. S.

TITLE: On the failure of turbine discs when operating at a "reverse" temperature gradient

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk. 42. Silovyye ustavovki, no. 15, 1962, 30, abstract 42.15.184 (In collection Teplovyye napryazheniya v elementakh turbomashin, Kiev, AS UkrSSR, no. 1, 1961, 150-155)

TEXT: The analysis of turbine disc operation at "reverse" temperature gradients, shows that the stressed state of the turbine disc periphery under such conditions is liable to cause disc failure. Reliable operation of turbine discs in mobile turbine plants requires a more detailed study of the effect of temperature gradients on the carrying capacity of discs under cycling working conditions and stress concentrations.

[Abstracter's note: Complete translation.]

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Card 1/1

POTEMKINA, A.A.

Always on the way to new discoveries; on the 60th birthday of
V.V.Parin, active member of the Academy of Medical Sciences
of the U.S.S.R. Med. sestra 22 no.11:62-64 N'63
(MIRA 16:12)

POTEMKINA, A.A.

In memoriam of Prof. V.V. Gorinevskii (1857-1937). Med.sestra
22 no.2:47-49 F '63. (MIRA 16:5)
(GORINEVSKII, VALENTIN VLADISLAVOVICH, 1857-1937)

POTEMKINA, D.A.

Significance of wolffian ducts in the formation of Müller's canals
in amphibians. Dokl. AN SSSR 163 no.4:1036-1039 Ag '65.
(MIRA 18:8)

1. Moskovskiy gosudarstvennyy universitet. Submitted October 8,
1964.

BORSUK, R.A., red. (Moskva); BOCHAROV, Yu.S., red.(Moskva);
GINZBURG, A.S., red.; YEMEL'YANOV, S.V., red.; LANGE,
A.B., red.; LARIONOV, V.F., red.; MANUILIOVA, N.A., red.;
MATVEYEV, B.S., red.; PODDUBNAYA-ALMOL'DI, V.A., red.;
POTEMKINA, D.A., red.; TRANKOVSKIY, D.A., red.; USTINOVA,
Ye.I., red.; SHMIDT, G.A., red.; SHREDER, V.N., red.;
NECHAYEVA, Ye.G., red.

[Problems in modern embryology] Problemy sovremennoi embriologii. Moskva, Izd-vo Mosk. univ., 1964. 565 p.
(MIRA 17:5)

POTEMKINA, D. A.

Excretory Organs

Correlation between the mesonephron and the wolffian duct in the formation of the excretory system in amphibians. Dokl. AN SSSR 89 No. 3, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.

POTEMKINA, D.A.

Role of the excretory system in the development of Miller's canals
in Anura. Dokl. AN SSSR 148 no.6:1428-1430 F '63. (MIRA 16:3)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком Yu.A.Orlovym.
(Anura) (Embryology--Amphibia)

POTEMKINA, D.A.

Role of mesothelium in the development of Miller's canals in Amira.
Dokl. AN SSSR 149 no.5:1229-1232 Ap '63. (MIRA 16:5)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
Predstavлено академиком Yu.A.Orlovym.
(EMBRYOLOGY--AMPHIBIA)

POTEMKINA, L. V., Engr

Glass Technology

Dissertation: "Investigation of the Volatilization of Some Oxygen Compounds of Boron for the Purpose of Improving the Technology of Boron-Containing Glass." Cand Tech Sci, All-Union Sci Res Inst of Glass, Ministry of Construction Materials Industry USSR, 16 Mar 54. (Vechernyaya Moskva, Moscow, 4 Mar 54)

SO: SUM 213, 20 Sept 1954

POTENKINA, L. V.
Presence of chemical compounds in fused alkali borates, and their volatility. N. V. Solomin and L. V. Potenkina, *Doklady Akad. Nauk S.S.R.* 96, 91-94 (1954); cf. Botvinkin, *Sbornik Strainic SSSR* (Moscow) 1933, 5; Gribenshchikov, *ibid.* 101; Cole and Taylor, *C.A.* 29, 3584^a.
—From melts of $R_2O \cdot 2B_2O_3$; $R_2O \cdot B_2O_3$; $2R_2O \cdot B_2O_3$ ($R = Li$, Na, K, Rb) the volatility and the compn. of the vapor phase were detd. at 1100°, 1200°, 1300°, 1400° (by weight loss, and chem. analyses). Independently, analyses were made of the condensates on the cold walls of the porcelain tube in which the Pt crucible with the melts had been suspended. The accuracy of the detns. of the condensates was for both methods about 1%. Completely volatile are: $Na_2O \cdot B_2O_3$ at 1400°, $K_2O \cdot B_2O_3$ and $2K_2O \cdot B_2O_3$ at 1300°, $Li_2O \cdot B_2O_3$ and $Li_2O \cdot 2B_2O_3$ vaporize at 1400° without perceptible change of compn., but $2Li_2O \cdot B_2O_3$ is changed to $Li_2O \cdot B_2O_3$ in the vapor. Also $Na_2O \cdot B_2O_3$ volatilizes without decompr. up to 1400°, $Na_2O \cdot 2B_2O_3$ is partially decompr. above 1200°, and at 1400° the vapor phase contains 30% $Na_2O \cdot B_2O_3$. The max. in the fusion diagram is rather sharp for $Na_2O \cdot B_2O_3$, but very flat for the diborate. $2Na_2O \cdot B_2O_3$ is not decomposed in its vapor at 1300°, but at 1400° $Na_2O \cdot B_2O_3$ is formed in the condensate. $K_2O \cdot B_2O_3$ and $2K_2O \cdot B_2O_3$ are not decompr. below 1300°, $K_2O \cdot 2B_2O_3$ is entirely decompr. and changed to $K_2O \cdot B_2O_3$ in the vapor condensate. Metaborates are the most stable borates; the vapor pressure of free B_2O_3 is much inferior to that of free R_2O and of the metaborates. In the manuf. of borosilicate glasses it is important to learn from the authors' results that $K_2O \cdot B_2O_3$ is the most volatile constituent in glass melts. With increasing at. wt. and cationic radius of the alkali metals an approx. linear function is plotted for the volatilization of the metaborates, detd. in g./sq. cm. per sec. $\times 10^4$ at const. temp.
W. Etel

62
①

POTEMKINA, M.V.

Conference on the automatic control and mechanization of
the rubber industry. Kauch.i rez. 19 no.2:48-50 P '60.
(MIRA 13:6)

(Rubber industry--Equipment and supplies--Congresses)
(Automatic control)

ACCESSION NR: AP3001771

S/0188/63/000/003/0044/0047

AUTHCR: Udalova, V. V.; Potemkina, N. A.

TITLE: Electronographic study of growth textures of indium dusted on a sample of rock salt in vacuum

SOURCE: Moscow. Universitet. Vestnik. Seriya 3. Fizika, astronomiya, no. 3, 1963, 44-47

TOPIC TAGS: indium film, indium film growth texture, indium film electronograph, growth texture

ABSTRACT: Thin films of indium deposited on fresh cold samples of rock salt were investigated after holding for 1.5 hr. at 100C.

It was found that the films form two types of texture depending on the conditions of dusting. The first type, determined by the orienting action of a rock salt sample, contains (III) planes which are parallel to the base. The second type, determined by the conditions of growth, has (III) planes perpendicular to the base. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

Card 1/41

14 Sep 62

UDALOVA, V.V.; POTEMLINA, N.A.

Electron diffraction study of the textures of growth of indium
vaporized on the cleavage of Rochelle salt under vacuum. Vest.
Mosk. un. Ser. 3: Fiz., astron. 18 no.3:44-47 My-Je '63.
(MIRA 16:10)
1. Kafedra kristallofiziki Moskovskogo universiteta.

POTEKHINA, N.D.

AG-7703

BUTIN, S. M., GRIBOVSKY, A. A., LAVRENT'EV, Yu. D.
GOLIKOV, S. S., GOLOVIN, V. D.

INVESTIGATION OF THE DIFFUSION OF MINORITY CARRIER IN A
MAGNETIC FIELD

5/18/1987 04/05/034
3002/3063

AUTHORS:
TITLE: INVESTIGATION OF THE DIFFUSION OF MINORITY CARRIER IN A
MAGNETIC FIELD

PERIODICAL: Fizika tverdogo tela, 1960, Vol. 2, No. 4, pp. 575-590

TEXT: The distribution of the concentration of minority carriers theoretically and
numerically studied. A light spot was found on a sample by means of
an electron microscope. The occurring spot was measured by means of
an NB-9 (Dr-9) tube voltmeter. The setup is schematically represented in
Fig. 1. In this, the longitudinal magnetoresistance effect (Fig. 2) was used to de-
termine the carrier concentration. Such measurements made it possible to de-
termine both the diffusion coefficient and the mobility of carriers. The
carrier concentration ratio between carriers of light and heavy holes
was determined experimentally. The concentration ratio between light
and heavy holes in germanium was about 2 per cent. Relation is made of

Card 1/2

R917
5/19/60/002/34/05/034
3002/3063

Investigation of the diffusion of Minority
Carriers in a Magnetic Field

Carriles en un campo magnético

I. F. Klikin, Kostov, and Pines. There are 7 figures and 10 references:

I. F. Klikin, Kostov, and Pines. There are 7 figures and 10 references:

7 Soviet, 1 American, 9 British, and 1 French.

ASSOCIATION: Leningradsky fiziko-tekhnichesky institut AS SSSR
(Leningrad Physico-Technical Institute of the USSR)

SUBMITTED: July 24, 1959

Card 2/2

KICHAGOV, Anatoliy Vasil'yevich [deceased]; POTEMLINA, N.S., red.

[Fish acclimatization in the bodies of water of the
U.S.S.R.] Akklimatizatsiya ryb v vodoemakh SSSR. Moskva,
Pishchevaya promyshlennost', 1964. 117 p. (MIRA 18:3)

DOROKHOV, Stepan Alekseyevich; POTEKINA, N.S., red.

[Practical manual on controlling fishery products pests]
Prakticheskoe rukovodstvo po bor'be s vrediteliami ryb-
nykh produktov. Moskva, Pishchevaia promyshlennost',
(MIRA 18:3)
1965. 91 p.

BURKO, O.A.; FOMENKINA, N.S., red.

[Extending the between-repair periods in the operation of SRT boats; from the experience of fishing vessels of the Kaliningrad base of the Ocean Fishing Fleet (KBORF) under the Kaliningrad Industrial Fisheries Administration. Prolenie mezhremontnykh periodov ekspluatatsii SRT; na osnove raboty promyslovykh sudev Kaliningradskoi bazy okeanicheskogo rybolovnogo flota (KBORF) Kaliningradskogo proizvodstvennogo upravleniya rybnoi promyshlennosti. Moskva, Pishchevaia promyshlennost', 1964. 15 p. (MIRA 17:9)

KRYLOV, Viktor Ivanovich; FEDOSEYEV, Gennadiy Aleksandrovich;
SHUSTOV, Artur Petrovich; POTEMLINA, N.S., red.

[Pinnipedia of the Far East] Lastonogie Dal'nego Vostoka.
Moskva, Pishchevaia promyshlennost', 1964. 57 p.
(MIRA 17:12)

GOLOVKOV, Georgiy Aleksandrovich; KUZ'MIN, Anatoliy Nikolayevich;
POTEMKINA, N.S., red.; POLUYEKHINA, N.I., tekhn. red.

[Biology of Coregonus peled and the biotechnics of its
cultivation] Biologiya peliadi i biotekhnika ee razvede-
niia. Moskva, Rybnoe khozaiistvo, 1963. 52 p.
(MIRA 17:3)

IVANOV, Boris Georgiyevich; POTEKINA, N.S., red.

[Present state of world shrimp fisheries] Sovremennoe sostoianie mirovogo promysla krevetok. Moskva, Pishchevaya promyshlennost', 1964. 132 p. (MIRA 18:6)

REZNIKOVSKAYA, M.F.; RYNAK, V.M.; BUTENKOVA, F.A.; OSENKOV, V.G.; KOTON, N.N.
KOTEMKINA, O.N.; SHUVILLOVA, T.M.

Results of the treatment of chronic colitis of infectious etiology
by means of siphon lavage of the intestine with hypotonic solution
of Tambukan mud. Sber, nooch, reb, vrach san.-kur. uchrt. profsciuzov
(MIRA 18:10)
no.3:136-139 '62.

1. Yessentukskiy sanatoriy (Kommun. sov) (glavnyy vrach M.I.Ponomarev).

LISOVSKAYA, E.V.; DYATLOVITSKAYA, F.G.; POTECHKINA, S.K.; TOMASHEVSKAYA, L.A.;
ROZHKOVETSKAYA, R.K.

Experimental data on the basis of the maximum permissible con-
centration of maleic acid in the water of reservoirs and rivers.
San. okhr. vod. ot zagr. prom. stoch. vod. no.5:346-352 '64.
(MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy institut kommunal'noy
gigiyeny.

DYATLOVITSKAYA, F.G., kand.khim. nauk; POTECHKINA, S.K., inzhener-khimik

Determination of nitrobenzene in industrial sewage by the indophenol and polarographic methods. Gig. i san. 28 no.1:38-44
Ja'63. (MIRA 16:7)

1. Iz Ukrainskogo nauchno-issledovatel'skogo instituta kommunal'-
noy gigiyeny.
(SEWAGE--ANALYSIS) (POLAROGRAPHY) (INDOPHENOL)

POTEMKINA, T.N.

Efficiency promoters of the local industry. Gor.khoz.Msk. 34
no.2:35-38 P '60. (MIRA 13:6)

1. Starshiy inzhener po izobretatel'stvu Upravleniya poligrafi-
cheskoy promyshlennosti i kul'ttovarov Mosgorispolkoma.
(Moscow--Efficiency, Industrial)

БОГУСЛАВСКИЙ, В. А.

1937 Документация о деятельности Краснодарской Народной Республики в Ленинграде в 1920 г.
Сборник Работ по подготовке к выставке К. И. Скрябина.

POTEMKIN, V. A.

Mos., All-Union Inst. Helminthology im. K. I. Skryabin, Moscow, -1941-42-.

Biology, Parasitology.

"Contribution to the Biology of Moniezia Expansa (Rudolphi, 1810), a Tapeworm

Parasitic in Sheep and Goats," Dok. AN, 30, No. 5, 1941;

"On the Deciduosity of the Biological Cycle in Moniezia Benedeni (Moniez, 1872),

Tapeworm Parasitic of Cattle," ibid., 42, No. 3, 1943;

"Contribution to the Study of the Development of Trysaniezia Ovifera (Rivolta, 1878),

a Tapeworm Parasitic of Ruminants," ibid., 43, No. 1, 1944.

RE: VASILYEV, V. A.

1944, Krasnogorsk. Biologicheskaya laboratoriya po issledovaniyu i izucheniu
lenochekov i mikroorganizmov v prirodnoj sredy. DOKLAD, T. 1.,
No. 3., str. 150-151.

POTEMKINA, V. A.

POTEMKINA, V. A. (Candidate of Veterinary Sciences, All-Union Institute
of Helminthology imeni Academician V. I. Skryabin.
Experiment at therapy of bovine fascioliasis with hexachloroethane.

Source: Veterinariya; 4-5; April/May 1945 uncl
TAECON

POTEMKINA, V. A.

POTEMKINA, V. A. (Candidate of Veterinary Sciences, All-Union Institute of Helminthology imeni K. I. Skryabin). On the fight against monieziaisis of calves.

So: Veterinariya; 23; 4; April 1946; uncl.
TABCON

POTEMKINA, V. A.

Potemkina, V. A. "A study of the biology of the cause of monieziasis in ruminants —
Moniezia expansa (Rudolphi, 1810)", Sbornik rabot po gel'mintologii (Vsesoyuz. in-t
gel'mintologii im. akad. Skryabina), Moscow, 1948, p. 177-84.
SO: U-3042, 11 March 53 (Letopis'nykh Statey, No. 10, 1949).

POTEMKINA, V. A.

"Monieziosis of Calves (Etiology, Epidemiology and Prophylaxis of the Disease)." Thesis for degree of Dr. Veterinary Sci., Sub 24 Jun 49, Moscow Veterinary Academy.

Summary 32, 18 Dec 52, Dissertations Presented For Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

FEDORINA, V. A., GOL'dENVICH, YE., GRIGOR'YAN, G. A., DEMIDOV, N. V., FERKHTEROV, P. I.,
KRYUKOVA, K. A., PANKSYUK, D. I., TYUNOV, V. I., SHKODIN, N. YU., SVESINIKOVA, N. M.,
SUDARIKOVA, V. YE.

Parasites

Dissertations in helminthology, defended in 1949-1950. Trudy Gel'm. lab. no. 5, 1951.

Monthly List of Russian Accessions, Library of Congress, September 1952. Unclassified.

POTENKINA V.A.

POTENKINA, V.A., "Basic Helminthi of Georgia, State Publishing House, Tbilisi,
GSSR, 1952. 168 pages with illustrations, price 2 rubles, 65 pages, 12,000 copies.
SO: Veterinariya; Vol. 30; No. 7; July 1952 ucc1 de 8
Trans. # 135 by L. Lallieh

POTEKINA, V. A.

Principal forms of helminthiasis in poultry. Moscow, Gos. izd-vo selskho lit-ry, 1955. 167 p.

1. Worms, Intestinal and parasitic.
2. Poultry - Diseases.

POTEMKINA, V. A.

Ispytaniye Tykvennykh Semyan V Kachestve Antgel'mintika Pri Kishechnykh
Gel'Mintozakh (Tsestdozakh i Nematodozakh) Koshek i Sobak, "Works on Helmin-
thology" on the 75th Birthday of K. I. Skryabin, Izdat, Akad. Nauk, SSSR,
1953, p. 558
All-Union Inst. Helminthology im. K. I. Skryabin

Periodical, 1. A.

USSR/Medicine - Veterinary, Drugs

Card 1/1

Author : Potemkina, V. A., Professor, Doctor of Veterinary Sciences

Title : Aminoquinacrine and filiksan in the treatment of Moniezia-infested sheep

Periodical : Veterinariya, 31, 14-15, Apr 1954

Abstract : Sheep infected with Moniezia genus of tapeworms can be treated successfully with either aminoquinacrine or filiksan. The most effective dose of aminoquinacrine is 0.2g per kilogram of body weight. Smaller doses of the drug are not very effective; larger doses, 0.35g per kilogram of body weight, may be fatal to lambs 5 months of age. Filiksan proved effective when administered in doses of 0.2-0.3g per kilogram of body weight. Filiksan is an odorless, tasteless powder, light brown in color. Filiksan is prepared from the rhizome of male fern and contains all the active antihelminthic elements that are characteristic of fern extracts.

Institution : All-Union Institute of Helminthology imeni Academician K. I. Skryabin

POTEMKINA, V.A., doktor vet. nauk

Prophylaxis of principal helminthic diseases in poultry. Ptitsevodstvo
8 no. 7:42-44 Jl '58. (MIRA 11:8)

1. Vsesoyuznyy institut gel'mintologii imeni akademika K.I. Skryabina.
(Worms, Intestinal and parasitic)
(Parasites--Poultry)

POTEMKINA, V.A..

Method of keeping cribatid mites under laboratory conditions
[with summary in English]. Zool. zhur. 38 no.2:282-284 F '59.
(MIRA 12:3)

1. All-Union Institute of Helminthology.
(Mites as laboratory animals)

POTEMKINA, V.A.

Provide animal husbandry with effective drugs to control helmin-thiasis. Med.prom. 14 no.1:3-6 Ja '60. (MIRA 13:5)
(WORMS, INTESTINAL AND PARASITIC) (DRUGS)

POTRMKINA, Valentina Alekseyevna, prof., doktor veter.nauk; YARNYKH,
A.M., red.; BALLOD, A.I., tekhn.red.

[Poultry helminthiases] Gel'mintozy domashnikh ptits. Izd.2.,
perer. i dop. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1960. 235 p.
(MIRA 13:11)

(Parasites--Poultry)
(Worms, Intestinal and parasitic)

POTEMKINA, V.A., prof., doktor veterinarnykh nauk; LUKASHENKO, N.P.,
aspirant

Testing ditrazine and atenin in chicken ascariasis. Trudy
VIGIS 6:246-247 '59. (MIKA 15:5)
(Ascaridae and ascariasis)
(Parasites---Poultry) (Anthelmintics)

POTEMKINA, V.A., prof., doktor veterinarnykh nauk; LUKASHENKO, N.P.,
aspirant

Testing diethylazine and atonin in chicken ascariasis. Trudy
VIGIS 6:246-247 :59. (MIRA 15:5)
(Ascaridae and ascariasis)
(Parasites--Poultry) (Anthelmintics)

POTEMKINA, V. G.

Chromotropic *azo* dyes as reagents for trivalent thallium.
I. M. Korenman, V. G. Potemkina, and I. S. Pedorovit.
J. Anal. Chem. U.S.S.R. 11, 315-16 (1956) (English translation).—See *C.A.* 50, 16237a. B.M.R.

3

✓ 1142 Chromotrophic acid derivative as reagent for
trivalent thallium

See also: J. Indian Inst. Sci. Chem. Div. 1956, 11 (3), 307-309.

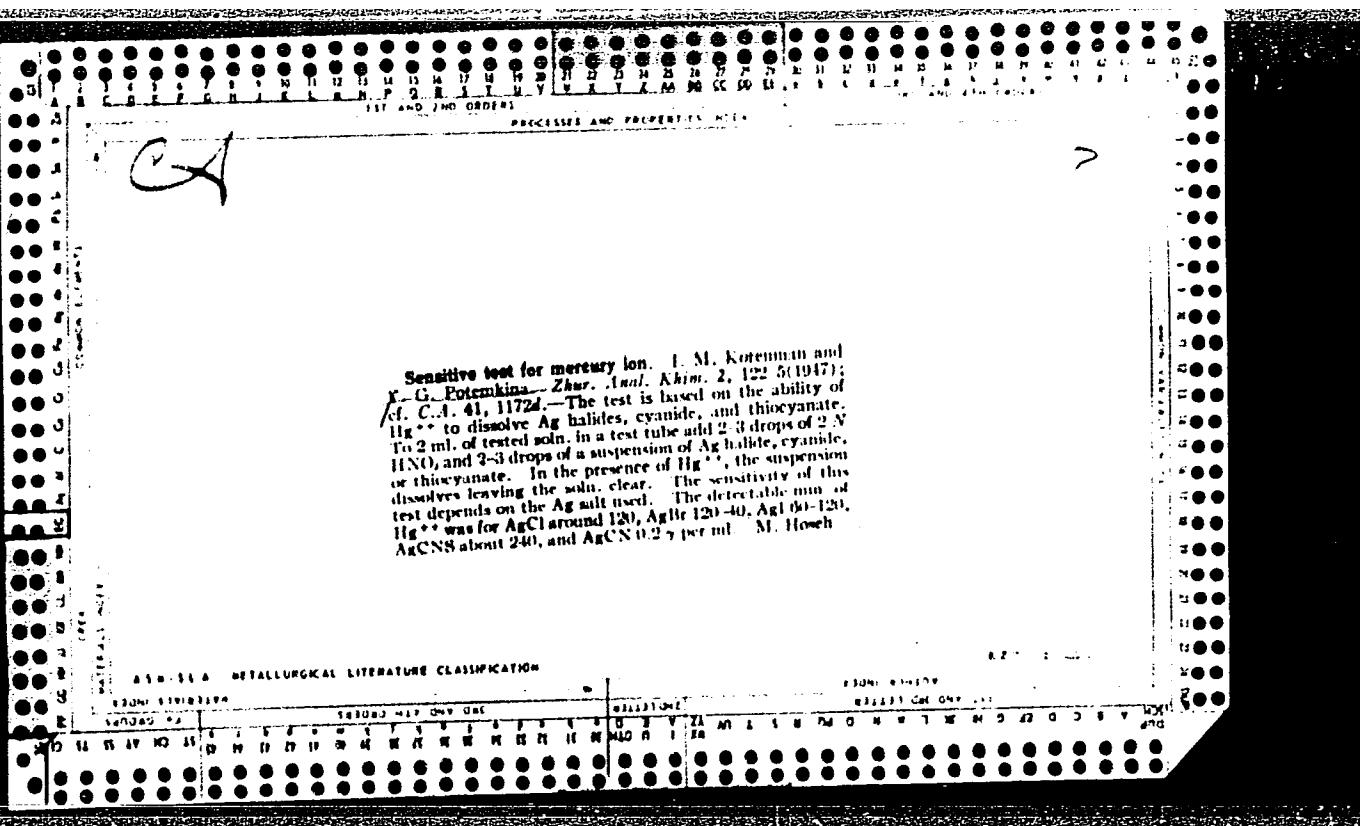
Trivalent Tl gives colours with certain chromotrophic acid dyes, e.g. 3-p-dimethylaminophenylazo-4,5-dihydroxanththene-2,7-disphosphoric acid, which is suitable for the colorimetric determination of 1 to 10 µg of Tl in 1 ml. of solution even in the presence of c. 10 times more Fe³⁺ (1000 Mg + 300 and ca. < 700). The solution (1 ml.) is mixed with 0.1 ml. of 2 N acetic acid, four drops of glycerol and three drops of a 0.1% soln of the reagent. The blue colour of the reagent soln becomes violet in the presence of Tl³⁺. No reaction is given by Tl⁺.

G. S. SMITH

KORENMAN, I.M.; POTEMKINA, V.G.; FEDOROVA, L.S.

Chromotropic azo dyes as reagents for trivalent thallium. Zhur.
anal.khim. 11 no.3:307-309 My-Je '56. (MLRA 9:8)

1. Gor'kovskiy gosudarstvennyy universitet.
(Thallium) (Azo dyes)



KRUSH, I.I. (Dnepropetrovsk); POTEVKINA, V.N. [Pot'omkina, V.M.]
(Dnepropetrovsk); ROZOVSKIY, M.I. [Rozovs'kyi, M.I.]
(Dnepropetrovsk)

Effect of the time factor on the development of very fine
cracks in a solid. Prykl. mekh. 9 no.4:438-441 '63.
(MIRA 16:8)

1. Dnepropetrovskiy gornyy institut.

USSR/Analytical Chemistry - Analysis of Inorganic Substances, G-2

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 122⁴

Author: Korenman, I. M., Potemkina, V. J., and Fedorova, L. S.

Institution: None

Title: Chromotropic Azodyes as Reagents for Trivalent Thallium

Original
Periodical: Zh. analit. khimii, 1956, Vol 11, No 3, 307-309 (with a summary in English)

Abstract: The possibility of utilizing azo-derivatives of chromotropic acid for the determination of Tl(III). It is shown that these reagents give color reactions with Tl(III) in weakly acid medium (CH_3COOH). N-dimethylanilineazochromotropic acid was used in the determination of 1-10 μml Tl(III) in HCl in the presence of a 100-1,000-fold amount of Al, a 100-fold amount of Fe(III), a 300-fold amount of Mg, and a 700-fold amount of Ca. The salts of Tl(I) do not give such color reactions.

Card 1/1

BEREZOV, Yu.Ye.; DOBROVA, N.B.; POKROVSKIY, A.V.; POTECHKINA, Ye.V.;
RABOTNIKOV, V.S.

Aortic surgery. Vest. AMN SSSR 18 no. 9:26-32 '63. (MIRA 17:9)

1. Institut serdechno-sosudistoy khirurgii AMN SSSR.

BEREZOV, Yu.Ye., doktor med. nauk; POTEPMKINA, Ya.V., kand. med. nauk;
POKROVSKIY, A.V. kand. med. nauk; PAPOTNIKOV, V.S., kand. med.
nauk

Surgical treatment of fistula between the innominate artery and
the vein. Khirurgia no.1:43-46 '63. (MIRA 17:5)

1. Iz otdeleeniya khirurgii sosudov (zav. - doktor med. nauk Yu.Ye.
Berezov) Instituta serdechno-sosudistoy khirurgii (dir. - prof.
S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N. Bakulev)
AN SSSR.

BEREZOV, Yu.Ye.; POTEKINA, Ye.V.; ROVNOV, A.S.

Splenectomies in total extirpations of the stomach for cancer. Vest.
AMN SSSR 17 no.6:53-58 '62. (MI:A 15:8)

1. Institut serdechno-sosudistoy khirurgii AMN SSSR.
(STOMACH--SURGERY) (SPLEEN--SURGERY) (STOMACH--CANCER)

BEREZOV, Yu.Ye. (Moskva, Pegovaya ul., d.11, kv.181); POTEKINA, Ye.V.;
PROMIN, V.I.; YUPATOV, S.I.

Tracheostomy as a method for preventing respiratory insufficiency
after surgery on the esophagus and cardia. Vest.khir. no.3:3-9
'62. (MIRA 15:3)

1. Iz otdeleniya khirurgii pishchevoda (zav. - doktor med.nauk
Yu.Ye. Berezov) Instituta grudnoy khirurgii (dir. - prof. S.A.
Kolesnikov, nauchn. rukovod. - akad. A.N. Bakulev) AMN SSSR.
(ESOPHAGUS--SURGERY) (TRACHEA) (RESPIRATION)
(STOMACH)

POTEMKINA, Ye. V. (Moskva)

New cannula for joining small blood vessels. Eksper. khir. no.3:
92-94 '62. (MIRA 15:7)

(BLOOD VESSELS—SURGERY)
(SURGICAL INSTRUMENTS AND APPARATUS)

BEREZOV, Yu.Ye.; POTEVKINA, Ye.V.; RAKHIMOV, R.S.

Angioplastic replacement of venous trunks. Esper. Khir. i anest. 9
no.1:18-22 Ja-F '64. (MIRA 17:12)

1. Otdeleniye khirurgii sosudov (zav. - prof. Yu.Ye.Berezov) Instituta
serdechno-sosudistoy khirurgii (dir. - prof. S.A.Kolesnikov, nauchnyy
rukovoditel' - akademik A.N.Bakulev) AMN SSSR, Moskva.

POTEMKINA, Ye.V. (Moskva, Kalanchevskaya ul., d. 25/27, kv. 55)

Diagnosis and treatment of chronic mediastinitis. Vest.
khir. 81 no.11:78-84 N '58. (MIRA 12:3)

1. Iz 2-y kafedry klinicheskoy khirurgii (zav. - prof. B.K.
Osipov) TSentral'nogo instituta usovershenstvovaniya vrachey.
(MEDIASTINUM--DISEASES)

POTENKINA, Ye. V., 6-nd Med Sci--(diss) "Primary tumor of the testis.—
stium. (Cytobiology, morphology, angiogenesis, surgical treatment)."—
Leningrad, 1953. 20 pp (In: of health USSR. Central Inst for the Adv Med
Training of Physicians), 200 copies (N. 15-51, 192)

-153-

BEREZOV, Yu.Ye.; POTEMKINA, Ye.V.; MILONOV, B.V.; FRIDMAN, E.G.; KONOBEVTSEV,
O.F.

Possible surgical therapy of gastric stump tumors; preliminary
report. Grud. khir. 3 no.2:77-83 '61. (MIRA 14:4)
(STOMACH--TUMORS)

ПОДКЛАДКА, №. V.

Operative approach to the left atrial and mitral valve disease
in occlusive processes. Prof. M. N. Kholodenko, Dr. V. V. Sereinov,
I. Otdeleniye khirurgii sosoedov (zav. - prof. Yu. G. Sereinov)
meditsinskogo universiteta khirurgii na imeni S. I. Butyrskogo
nauchnyy rukovoditel' - kand. med. наук В. А. Григорьев. Prof. V. V. Sereinov.
Adres avtora: Moskva V-19, Leninskiy prospekt, d. 3, Institut zain-
dechno-sosudistoy khirurgii.

BEREZOV, Yu.Ye., prof.; POKROVSKIY, A.V.; POTEMLINA, Ye.V.; RABOTNIKOV, V.S.

Diagnosis of occlusive lesions of the branches of the aortic arch,
Sov. med. 28 no.3:15-21 Mr '65. (MIRA 18:10)

1. Otdeleniye khirurgii sosudov (zav. - prof. Yu.Ye.Berezov) Instituta
serdechno-sosudistoy khirurgii AMN SSSR (sektor - zasluzhennyy
deyatel' nauki RSFSR - prof. S.A. Kolesnikov), Moskva.

POTEKINA, Ye.V.; LEVINA, L.A.

Experience with pneumomediastinography in surgical practice. Khirurgia
34 no.3:87-90 Mr '58. (MIRA 12:1)

1. Iz 2-y kafedry klinicheskoy khirurgii (zav. - prof. B.K. Osipov) i
2-y kafedry rentgenologii (zav. - prof. Yu. N. Sokolov) Tsentral'nogo insti-
tuta usovershenstvovaniya vrachey (dir. v.P. Lebedeva).

(MEDIASTINUM, radiography
pneumomediastinography in surg. dis. (Rus))

POTEMKINA, Ye.V.

Vascular tumors of the mediastinum. Khirurgia 32 no.3:40-44 Mr '56.
(MLB 9:7)

1. Iz 2-y kafedry klinicheskoy khirurgii (zav.-prof. B.K.Osipov)
TSentral'nogo instituta usovershenstvovaniya (dir. V.P.Lebedeva)
(**MEDIASTINUM**, neoplasms,
angioma (Rus))
(**ANGIOMA**,
medistinum (Rus))

POTEMKINA, Ye.V. (Domnikovskaya ul., d.37, kv. 55)

Induced mediastinal emphysema [with summary in English, p.160] Vest.
khir. 77 no.7:86-92 Jl '56. (MLRA 9:10)

1. Iz 2-y kafedry klinicheskoy khirurgii (zav. - prof. B.K.Osipov)
TSentral'nogo instituta uovershenstvovaniya vrachey (dir. - V.P.
Lebedeva)

(PNEUMOMEDIASTINUM, artificial
in diag. of thoracic dis. of thorax, new method)
(THORAX, radiography
artif. pneumomediastinum, new method)

POTEMKINA, Ye.V.

Diagnosis of diseases of the mediastinum. Nauch. rab. asp. i klin.
ord. no; 6:166-172 '60. (MIRA 14:12)

1. II kafedra klinicheskoy khirurgii (zaw. prof. B.K.Osipov)
TSentral'nogo instituta usovershenstvovaniya vrachey.
(~~MEDIASTINUM~~ DISEASES)

BEREZOV, Yu.Ye.; KOVANEV, V.A.; POTEMKINA, Ye.V.

Unsolved problems in chest surgery. Grud. Khir. 2 no.3:115-125
My-Je '60. (MIRA 15:3)
(CHEST-SURGERY)

BEREZOV, Yu. Ye.; POTEKINA, Ye. V.

Method for preventing reflux esophagitis in operations on the cardia.
(MIRA 14:12)
Grull. khir. no.4:91-96 '61.

l. Iz Instituta grudnoy khirurgii (dir. - prof. S. A. Kolesnikov)
AMN SSSR.

(ESOPHAGUS—INFLAMMATION) (ESOPHAGUS—SURGERY)

BEREZOV, Yu.Ye., doktor med.nauk; POTEKINA, Ye.V.

Selection of an operative method in cancer of the thoracic segment of the esophagus of variable localization. Vest.khir. no.10:75-82 '61. (MIRA 14:10)

1. Iz otstreleniya khirurgii pishchevoda (zav. - dokt.med.nauk Yu.Ye. Berezov) Instituta grudnoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchn. rukovod. - akad. A.N. Bekulev) AMN SSSR. (ESOPHAGUS--CANCER)

BEREZOV, Yu.Ye.; POTEKINA, Ye.V.; GOLONZKO, R.R.; RAKHIMOV, S.R.

Diagnosis of esophagitis following surgery on the esophagus
and the cardial portion of the stomach. Grud. khir. 5 no.2:
(MIRA 17:2)
101-105 Mr-Ap'63

1. Iz otdeleniya sosudistoy khirurgii (zav. - doktor med.
nauk Yu.B.Berezov) i rentgenologicheskogo otdeleniya (zav.
dotsent M.A.Ivanitskaya) Instituta serdechno-sosudistoy
khirurgii (direktor - prof. S.A. Kolesnikov, nauchnyy ruko-
voditel' - akademik A.N. Bakulev) AMN SSSR.

POTEMKINA, Ye.V.

Artificial emphysema of the mediastinum. Nauch. rab. asp. i klin.
ord. no.6:173-183 '60. (MIRA 14:12)

1. II kafedra klinicheskoy khirurgii (zav. prof. B.K.Osipov) Central'nogo
instituta usovershenstvovaniya vrachey.
(MEDIASTINUM--TUMORS) (EMPHYSEMA)

POTEMKINA, Ye.V.

Continuous "machine" suture for vascular surgery. Eksper. khir.
i anest. 7 no.5:40-42 S-O '62.

1. Iz otdeleniya khirurgii sosudov (zav.- doktor med. nauk
Yu.Ye. Berezov) Instituta serdechno-sosudistoy khirurgii
(dir.- prof. S.A. Kolesnikov) AMN SSSR.

BEREZOV, Yu.Ye., prof.; POLEMKINA, Ye.V.; RUSHANOV, I.I.

Significance of angiography during operation in the evaluation of indications for surgical treatment of vascular diseases. Vest. khir. no.7:8-15 Jl '64. (MIFB 1814)

1. Iz otdeleniya khirurgii sosudov (zav. - prof. Yu.Ye. Berezov) i rentgenologicheskogo otdeleniya (zav. - doktor med. nauk M.A.Ivanitskaya) Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSSR.

BEREZOV, Yu.Ye; KOGAN, B.M.; POTEMKINA, Ye.V.; RAKHIMOV, S.R.

Differential diagnosis of chronic coronary insufficiency and
esophagitis. Sov. med. 27 no.12(51-52) D'60 (MIRA 1784)

1. Iz otdeieniya khirurgii sosedstv (zav. - prof. Yu.Y. Berezov)
i laboratoriil funktsionalnoy diagnostiki (zav. - kand. med.
nauk G.G. Gel'shteyn) Instituta veredekno-sosudislooy khirurgii
(dir. -- prof. S.A. Kolzenko, nauchnyy rukovoditel' - akademik
A.N. Bakulev) AMN SSSR.

L 22446-65

ACCESSION NR: AR4046206

3/0299/64/000/016/M020/M020

SOURCE: Ref. zh. Biologiya. Svodnyy tom, Abs. 16M124

AUTHOR: Berezov, Yu. Ye.; Potemkina, Ye. V.; Rakhimov, R. S.

TITLE: The problem of replacing venous trunks with plastic

CITED SOURCE: Eksperim. Khirurgiya i anestesiolog., no. 1, 1964, 18-22

TOPIC TAGS: dog, vein, allotransplantation, plastic, anastomosis, homotransplantation

TRANSLATION: Eight operations were performed in dogs to replace the inferior vena cava with allotransplants of dacron, teflon, and terylen. The vein section was replaced 3 cm lower than the site at which the renal veins flow into it. Over an observation period of 1-4 mos thrombosis was found in all cases when a transplant or vein section was placed any higher. Results were similar with use of homotransplants from the aorta or inferior vena cava. The results of 8 operations in the presence of deep hip vein thrombosis are given in which a bypass anastomosis was formed between a subcutaneous hip

Card 1/2

L 224:6-65

ACCESSION NR: AR4046206

vein and a healthy terminal end. Results were satisfactory in all cases of similar "shunting" and in one case where the anastomosis was formed with an external jugular vein of a patient with a Fedzhet-Shretter syndrome.

SUB CODE: LS

ENOL: 00

Cord 2/2

POTEMKINA. Z.A.

Changes in the afferent conductors in the paravasal regions of the
dura mater of the brain in human fetuses. Trudy KirgNOAGE no.2:100-
102 '65. (MIRA 18:71)

1. Iz kafedry normal'nyy anatomi (zav. - dotsent F.P.Plyakin)
Semipalatinskogo meditsinskogo instituta.

POTEMKINA, Z.A., assistant

Development of the sulci and gyri of the human brain. Trudy Semipal.
med. inst. 2:143-152 '59. (MIRA 15:4)

1. Kafedra anatomii Semipalatinskogo gosudarstvennogo meditsinskogo
instituta (zaveduyushchiy kafedroy dotsent I.M.Turetskiy).
(BRAIN)

POTEMKINA, Z. A. Cand Med Sci -- (diss) "Development of the cerebral sulci and gyri in humans." Karaganda, 1959. 13 pp (Karaganda Med Inst), 250 copies (KL, 49-59, 143)

-80-

TOKAREVA, L.G.; MIKHAYLOV, N.V.; POTECHKINA, Z.I.; KOVALEVA, M.V.;
BORIK, A.G.; ZEMSKOVA, G.N.; ZOTOVA, Ya.E.

Stabilization of polyamide fibers. Khim.volok. no.3:15-21 '61.
(MIRA 14:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo
volokna (for Tokareva, Mikhaylov, Potemkina, Kovaleva). 2. Klinskiy
kombinat (for Borik, Zemskova). 3. Mytishchinskiy zavod (for
Zotova).

(Textile fibers, Synthetic)

L 00582-66 EMT(m)/EPF(c)/EWP(j)/T RM

ACCESSION NR: AP5021596

UR/0286/65/000/013/0069/0069

AUTHORS: Mikhaylov, N. V.; Tokareva, L. G.; Potemkina, Z. I.; Korneyeva, A. M.;
Fedorina, Zh. A.; Burmistrov, S. I.

TITLE: A method for thermal stabilization of polyamides. Class 39, No. 172486

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 69

TOPIC TAGS: polyamide, thermal stability, stabilizer, triazine

ABSTRACT: This Author Certificate presents a method for thermal stabilization of polyamides by adding stabilizers. To increase the assortment of materials, the derivatives of triazine, such as N-paraoxyphenyl-2, 4-diaminotriazine-1,3,5, or 2-amino-4-para-anizidinotriazine-1,3,5 are used as stabilizers. The stabilizer may be added in the amount of 0.5% by weight.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut iskusstvennogo volokna
(All-Union Scientific Research Institute of Synthetic Fibers)

SUBMITTED: 30Oct64

ENCL: 00

SUB CODE: OC

NO REF Sov: 000

OTHER: 000

Card 1/1 *Yel*

BERESTNEV, V.A.; NAGDASEVA, I.P.; KOZYREVA, Z.M.; TOKAREVA, L.G.;
POTEMKINA, Z.I.; MIKHAYLOV, N.V.; KARGIN, V.A.

Effect of thermal stabilizers on the structure of capron
fibers. Khim. volok. no.2:35-41 '64. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti
(for Berestnev, Nagdaseva, Kozyreva). 2. Vsesoyuznyy nauchno-
issledovatel'skiy institut iskusstvennogo volokna (for
Tokareva, Potemkina, Mikhaylov).

TOKAREVA, L.G.; MIKHAYLOV, N.V.; POTEMKINA, Z.I.; KOVALEVA, M.V.

Processes and mechanism of the aging of synthetic fibers.
Part 2: Studies on the stabilization of polyamide fibers.
Vysokom. soed. 2 no. 11:1728-1738 N '60. (MIRA 13:11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut
iskusstvennogo volokna.
(Polyamides)

85424

15-8107

S/190/60/002/011/023/027
B004/B060

AUTHORS: Tokareva, L. G., Mikhaylov, N. V., Potemkina, Z. I.,
Kovaleva, M. V.

TITLE: Processes and Mechanism of the Aging of Synthetic Fibers.
II. Studies in the Field of Polyamide Fiber Stabilization

PERIODICAL: Vysokomolekulyarnyye soyedineniya, 1960. Vol. 2, No. 11,
pp. 1728 - 1738

TEXT: The authors have earlier studied the action of heat and light upon polyamide fibers (Ref.3). They have arrived at the conclusion that heat and light effect irreversible oxidation processes, so that the use of antioxidants can prevent these processes from taking place. In the article under consideration, the authors deal with the action of the following antioxidants upon the stability of the caprone fiber which was heated to 200°C for two hours: N,N'-di-β-naphthyl-p-phenylene diamine; 2,2'-methylene-bis-4-methyl-6-tert-butyl phenol; 2,6-di-tert-butyl-4-methyl phenol; 2,4,6-tri-(tert-butyl)-phenol; "Poligard": $[R-C_6H_4-O]_3P$; X

Card 1/6

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Processes and Mechanism of the Aging of
Synthetic Fibers. II. Studies in the
Field of Polyamide Fiber Stabilization

S/190/60/002/011/023/027
B004/B060

dimethyl phenyl-p-cresol; dibutyl-dihydroxy-diphenyl sulfide; product of the reaction of acetone with diphenyl amine; N,N'-phenyl-cyclohexyl-p-phenylene diamine; 2,5-di-tert-butyl hydroquinone; product of the reaction of acetone with aminophenol; N,N'-diphenyl-p-phenylene diamine; product of the condensation of phenol with styrene, and phenyl- β -naphthyl amine. Stabilizers were added to the polymer in amounts of 0.1 to 1% prior to spinning of fiber No. 300. Additions of luminophores, such as hydroxy phenyl benzoxazole, which serve as inhibitors of the destructive action of light, indicated that these substances had a thermostabilizing effect as well. The most reliable stabilizer is said to be N,N'-di- β -naphthyl-p-phenylene diamine (DNPDA), which was used in the further experiments. Table 3 shows the action of various additions of DNPDA upon the properties of the caprone fiber. When the fiber was irradiated with a mercury lamp for 20 hours, a protective action was found to come both from DNPDA and from the luminophore hydroxy phenyl benzoxazole. The following results were obtained: 1) Aromatic diamines and their derivatives are efficient stabilizers. 2) On a long action of high temperatures upon the fiber (150°C during 100-150 h) the

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Processes and Mechanism of the Aging of S/190/60/002/011/023/027
Synthetic Fibers. II. Studies in the Field B004/B060
of Polyamide Fiber Stabilization

DNPDA-stabilized fiber retained 80-85% of its original stability, while a corresponding value of no more than 20-25% was found for untreated fibers. 3) A brief action of high temperatures upon untreated fibers in nitrogen atmosphere (in the case of DNPDA-treated fibers also in the air) effects reversible changes in stability. Under these circumstances, an untreated fiber undergoes irreversible oxidative processes in the air. 4) Both thermostabilizing and photostabilizing substances exhibited the same protection both against heat and light. N. N. Semenov is mentioned. Gratitude is expressed to A. I. Korolev and his collaborators at the NIOPiK (Scientific Research Institute of Organic Semifinished Materials and Dyes) for their synthesis of DNPDA, and to N. V. Demina jointly with the collaborators of the laboratoriya tekstil'nykh ispytaniy (Textile Test Laboratory) for their fiber analyses. A. M. Glebova took part in the work. There are 6 figures, 5 tables, and 6 references: 4 Soviet, 2 US, 1 British, and 1 Czechoslovakian.

X

Card 3/6

85424

Processes and Mechanism of the Aging of S/190/60/002/011/023/027
Synthetic Fibers. II. Studies in the Field B004/B060
of Polyamide Fiber Stabilization

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut
iskusstvennogo volokna (All-Union Scientific Research
Institute of Synthetic Fibers)

SUBMITTED: July 14, 1960

Card 4/6

8/190/60/002/011/023/027
B004/B060

Количество добавки ДНФДА, %	2 По прогрева			6 Прогрето 8 час. при 150°			9 Прогрето 48 час. при 150°			10 Прогрето 100 час. при 150°		
	3 пуд	4 прочность, кг/мм²	5° удлинение, %	3 пуд	4 прочности, кг/мм²	5° удлине- ния, %	3 пуд	4 сохран- ние проч- ности, %	5° удлине- ния, %	3 пуд	4 прочности, кг/мм²	5° удлине- ния, %
	0,775	75,0	18,0	0,496	44,7 59,7	15,1 83,8	0,333	25,1 33,5	10,0 55,0	0,304	19,2 25,6	8,3 46,0
0,5	0,706	76,0	13,8	0,850	75,0 99,9	21,9 101	0,842	65,2 83,8	16,4 120	0,827	66,8 88,0	16,5 125,5
1	0,749	76,1	15,0	0,825	71,5 98	20,5 136,8	0,827	65,5 86,2	17,4 116	0,709	60,5 87,4	10,3 128,7
0,5	0,745	75,0	17,9	0,851	71,1 95,2	23,4 131	0,938	61,5 82,0	18,4 103	0,825	62,6 83,8	19,0 ^a 111

Table 3

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S/190/60/002/Q11/023/027
B004/B060

35

Legend to Table 3: Changes of caprone fiber properties on long heating
1 - Addition of DNPDA, %, 2 - prior to heating,
3 - η_{spec} , 4 - strength, kg/mm², 5 - elongation, %,
6 - 0-h heating to 150°C, 7 - residual strength, %,
8 - residual elongation, %, 9 - 48-h heating to
150°C, 10 - 100 h heating to 150°C.

40

45

50

55

Card 6/6

ACCESSION NR: AP4027715

S/0183/64/000/002/0035/0041

AUTHOR: Berestnev, V. A.; Nazdaseva, I. P.; Kozyrevva, Z. M.; Tokareva, L. G.; Potemkina, Z. I.; Mikhaylov, N. V.; Kargin, V.A.

TITLE: The effect of heat stabilizers on the structure of capron fiber.

SOURCE: Khimicheskiye volokna, no. 2, 1964, 35-41.

TOPIC TAGS: Capron fiber, structure, heat stabilizer, mechanical property, capron cord, morphology, heat treatment, elongation, polymer destruction, thermooxidative destruction, oxidation inhibitor, electron microscope, polarized microscope, fiber forming, fiber drawing, stabilizer polyamide bond, stabilization mechanism

ABSTRACT: The morphological character of capron fiber and the mechanical properties of capron cord stabilized with N, N'-di-beta-naphthy 1-p-phenylenediamine (DNFD₄) were investigated. Studies showed that heat treatment at 20-140C had little effect on the strength of the cord (34.5/4 x 2 and 10.7/1 x 2). On prolonged heating at elevated temperatures the strength of the stabilized fiber did not change significantly while the unstabilized fiber strength was reduced drastically. Heating under nonoxidizing conditions did not produce significant

Cord 1/3

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differences in the properties of the stabilized and unstabilized materials. Thus the deterioration of properties in the unstabilized fiber is attributed to thermo-oxidative destruction of the polymer. The oxidation inhibition by DNFDA is further illustrated by the higher dynamic properties of stabilized fibers. The structure of the fibers was examined with polarized and electron microscopes; photographs are included. The unstabilized capron fiber has a coarse macrostructure within the fiber which is absent at the surface of the fiber. By adding a small amount of stabilizer (0.5%) to the monomer melt, a fiber is obtained which has fine-dimensioned anisodiametric supermolecular macroformations and coarse oriented particles in the core and spherulite type structures in the surface. Based on these observations, it is proposed that self-reinforcement is clearly manifested and its influence on the properties of the stabilized capron fiber is shown. The physico-mechanical properties of the unstabilized capron cord extracted with acetone were reduced with continued heating (strength reduced by 2/3, elongation by 1/2) at 150C for 150 hours. The reduction in strength of the extracted and of unextracted stabilized capron cord was only about 1/4 while there was actually a slight improvement in the elongation. This led to the assumption that there is a strong bond between the stabilized molecules and the polyamide which affects

Cord 2/3

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the formation and growth of the supermolecular structure upon forming and drawing the fiber. A complex mechanism is proposed for the stabilization of the physical-mechanical properties at high temperatures and dynamic deformation: this mechanism is based on the association of the inhibition of thermochemical destruction of the polymer and on the stabilization of the fine-dimensioned supermolecular structure in the process of breaking down the fibrous materials. "Electron-microscopic data were obtained jointly with K. Kh. Razikov" "Authors express sincere appreciation to A. V. Orlov and K. Kj. Razikov for help in obtaining experimental data." Orig. art. has: 5 tables and 8 figures.

ASSOCIATION: NIIShP; VNIV; Institut im. Karpova

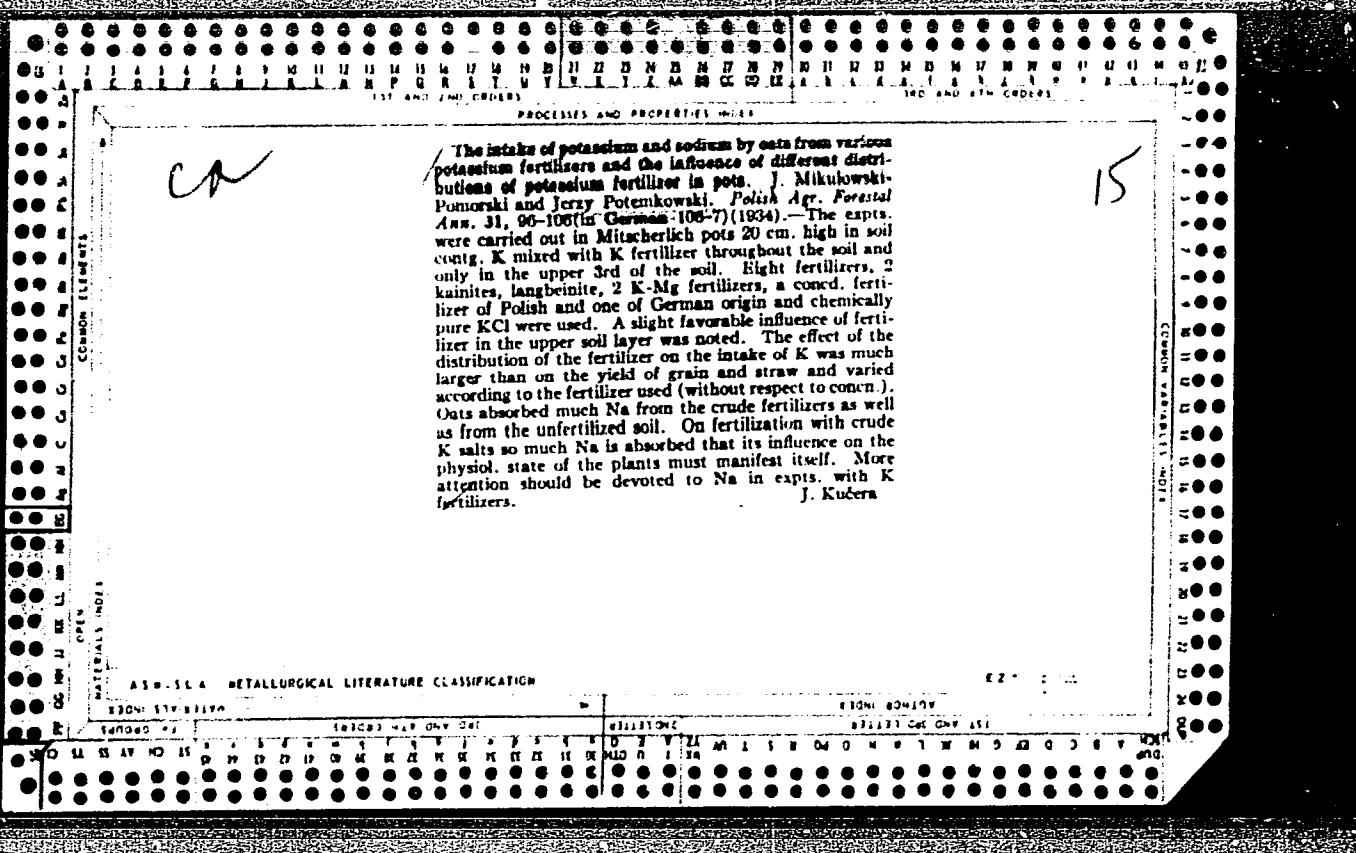
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Card 3/3

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